

# Module 2

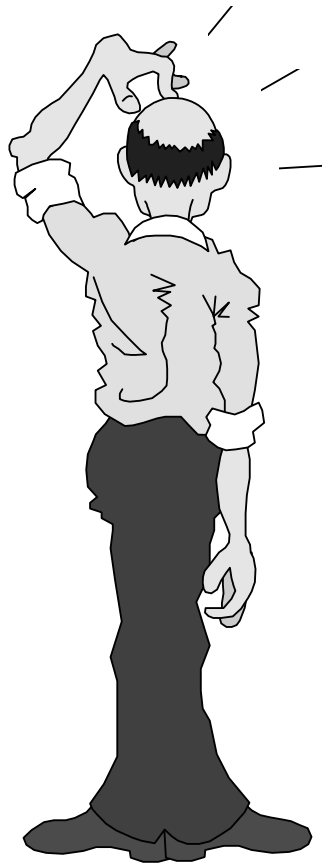
- Dust Definition
- Reasons To Control Dust



# Not All Dust Is Equal

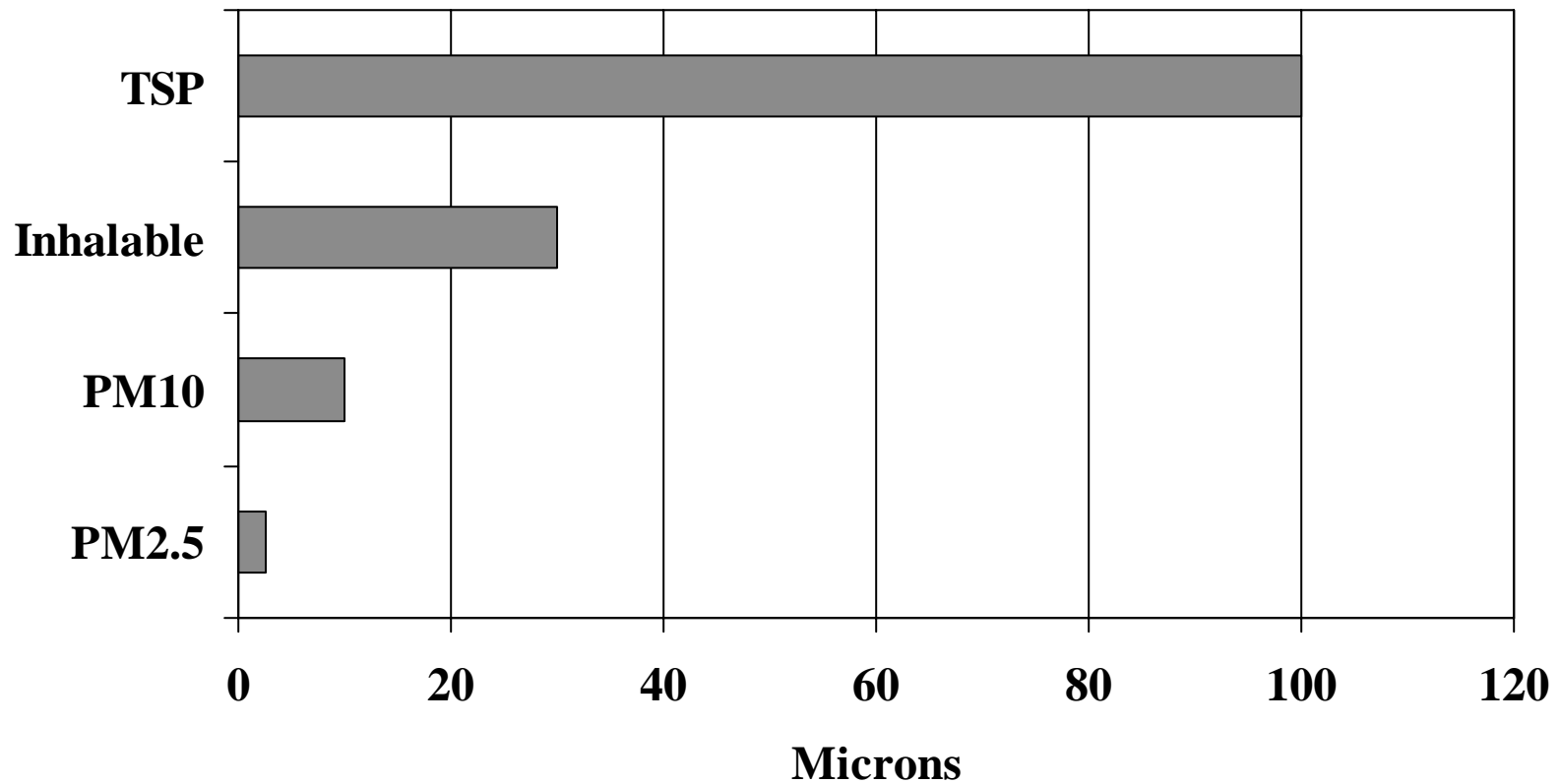


# Dust Terms

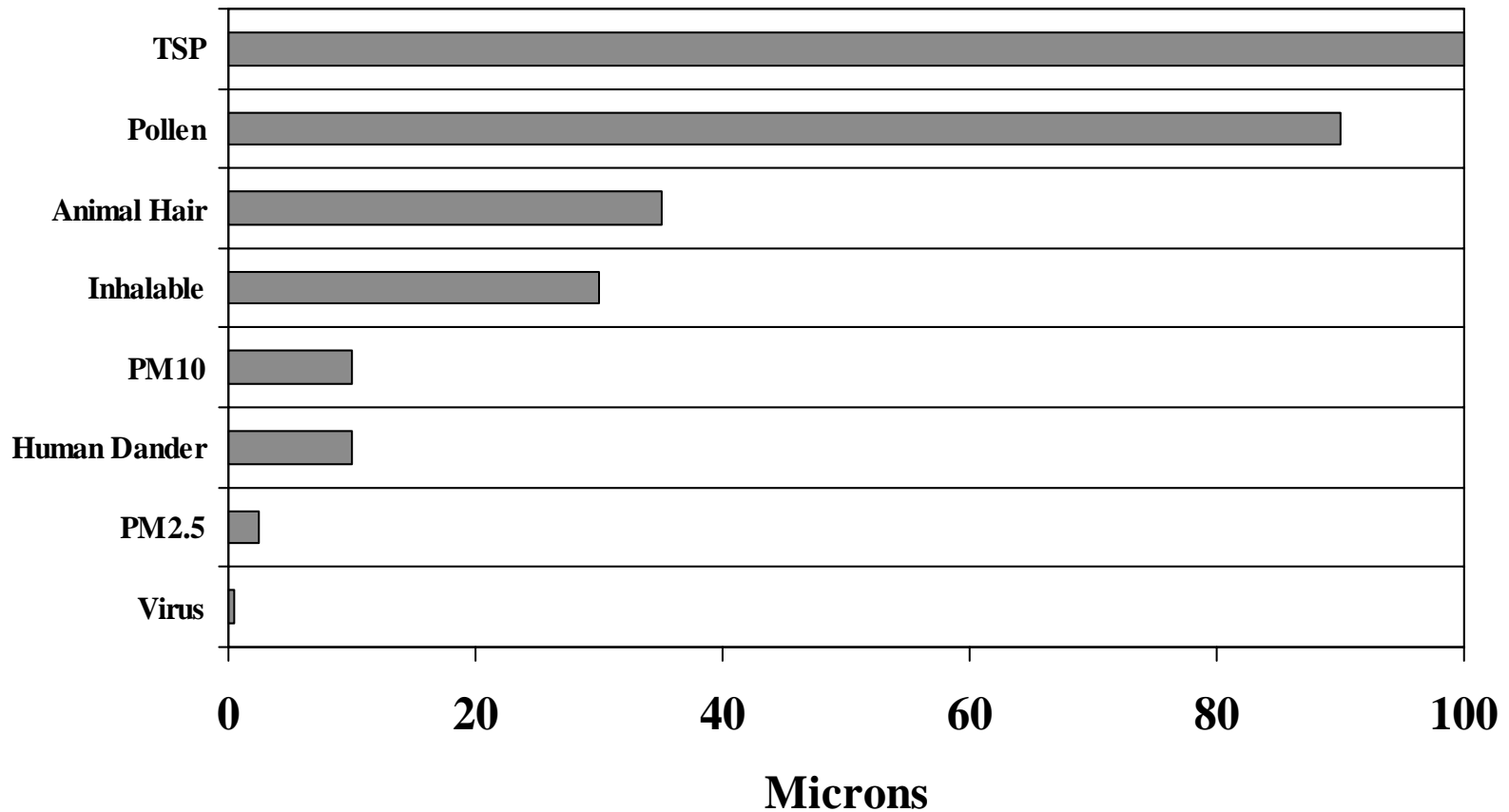


- Total Suspended Particulate- at or below 100 microns
- Inhalable Particulate Matter- at or below 30 microns
- PM10-at or below 10 microns
- PM2.5-at or below 2.5 microns

# Dust Term Particle Sizes



# Comparison

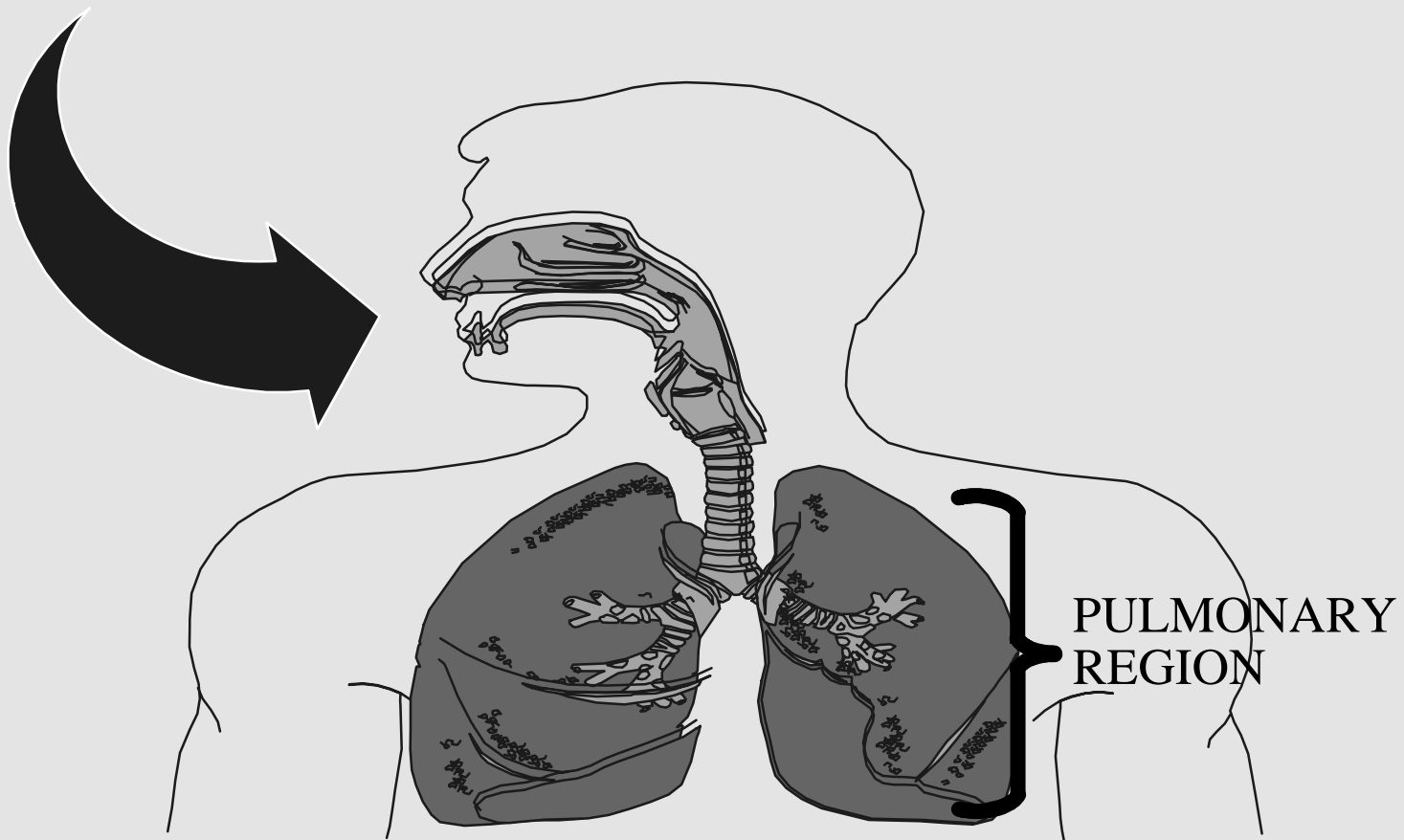


# Controlling Dust Benefits Your Health

- Dust inhalation can cause:
  - Increase in asthma episodes for people with asthma
  - Infections
  - Bronchitis

# PARTICULATE MATTER

Fine particulates can go deep into the lungs and cause infections and bronchitis



# Asthma

- Asthma is a chronic respiratory disease characterized by inflammation of the airways and increased responsiveness to various stimuli called asthma triggers.
- Asthma episodes involve progressively worsening shortness of breath, cough, wheezing, or chest tightness, or some combination.



## Asthma (cont)

- The severity of asthma goes from mild to life-threatening.
- Asthma has increased 61 percent between 1982 and 1994
- More than 5,000 people die of asthma in the US annually
- The total estimated cost of asthma in 1993 was \$12.6 billion

# Why Should You Control Dust Emissions At Your Spread?



# Regulations

- The Clean Air Act regulates dust emissions by:
  - New Source Performance Standards
  - Construction Permits
  - General Operation Permits
- Open burning also has some restrictions

# Saves Your Company Money

- Lowers violation related costs
- Lowers annual air emission fee
- By protecting worker health, future health claims may also be minimized



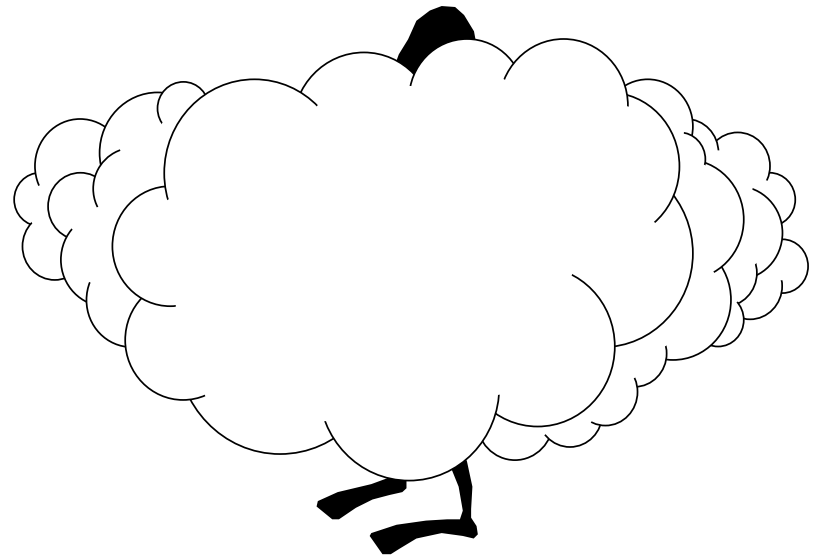
# Public Relations

- Perceived as a good neighbor
- Fewer complaints about your operation



# Excess Dust Means

- More costs
- More complaints
- More irritable DNR or boss



# Take a Break

- Discuss
  - DNR-industry interaction
  - Open Burning
  - Your company as a good neighbor

